

FIG. 1

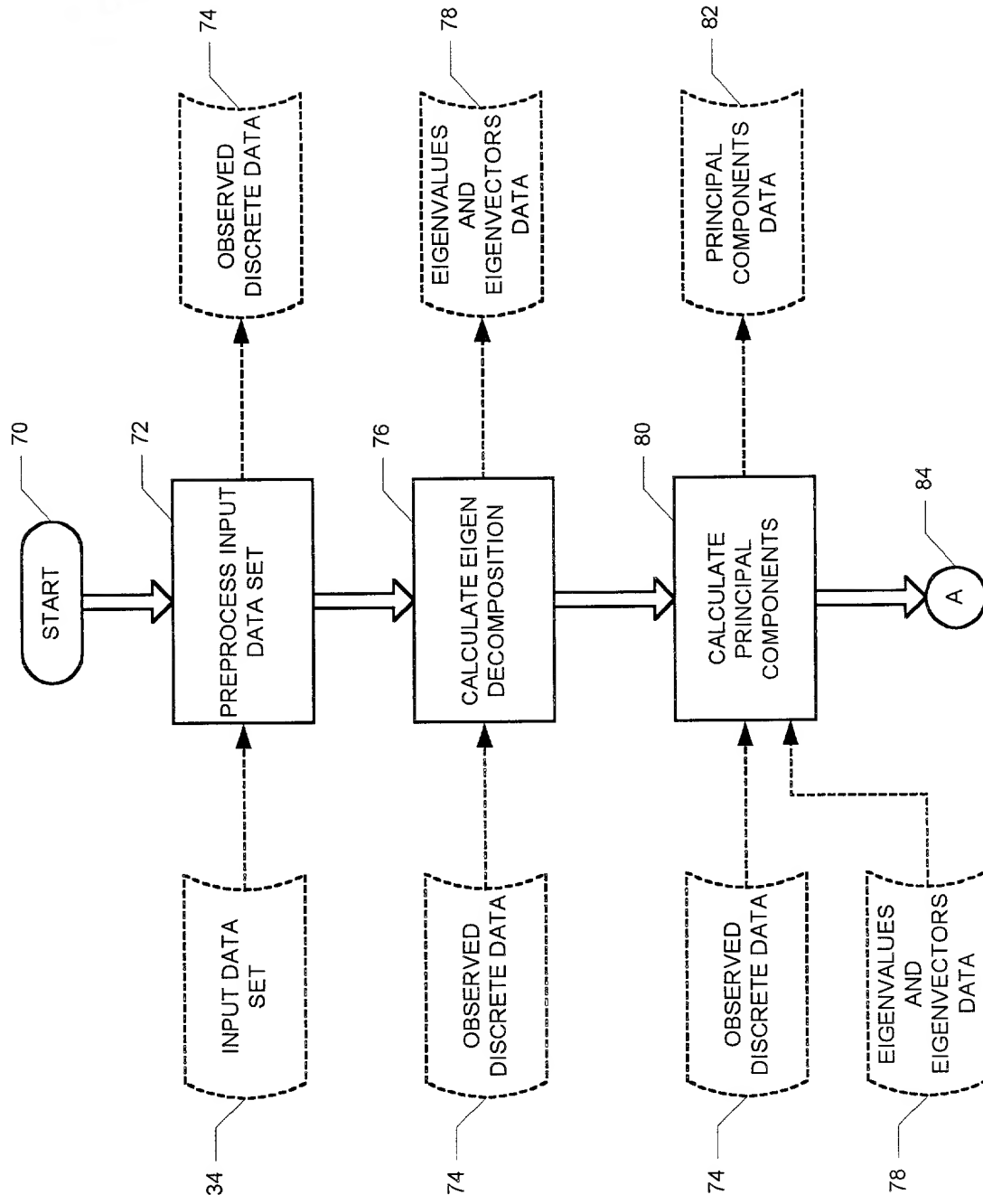


FIG. 2A

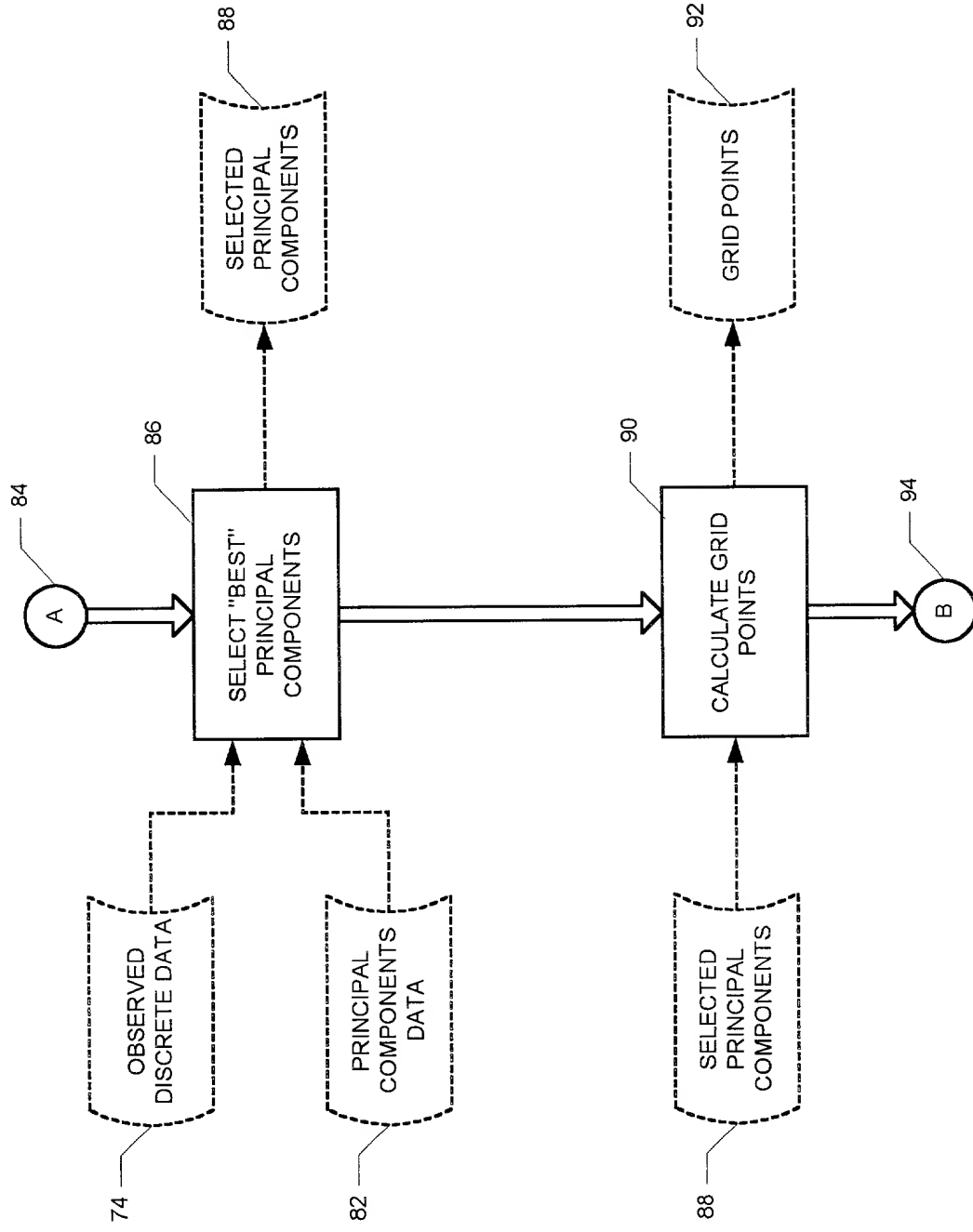


FIG. 2B

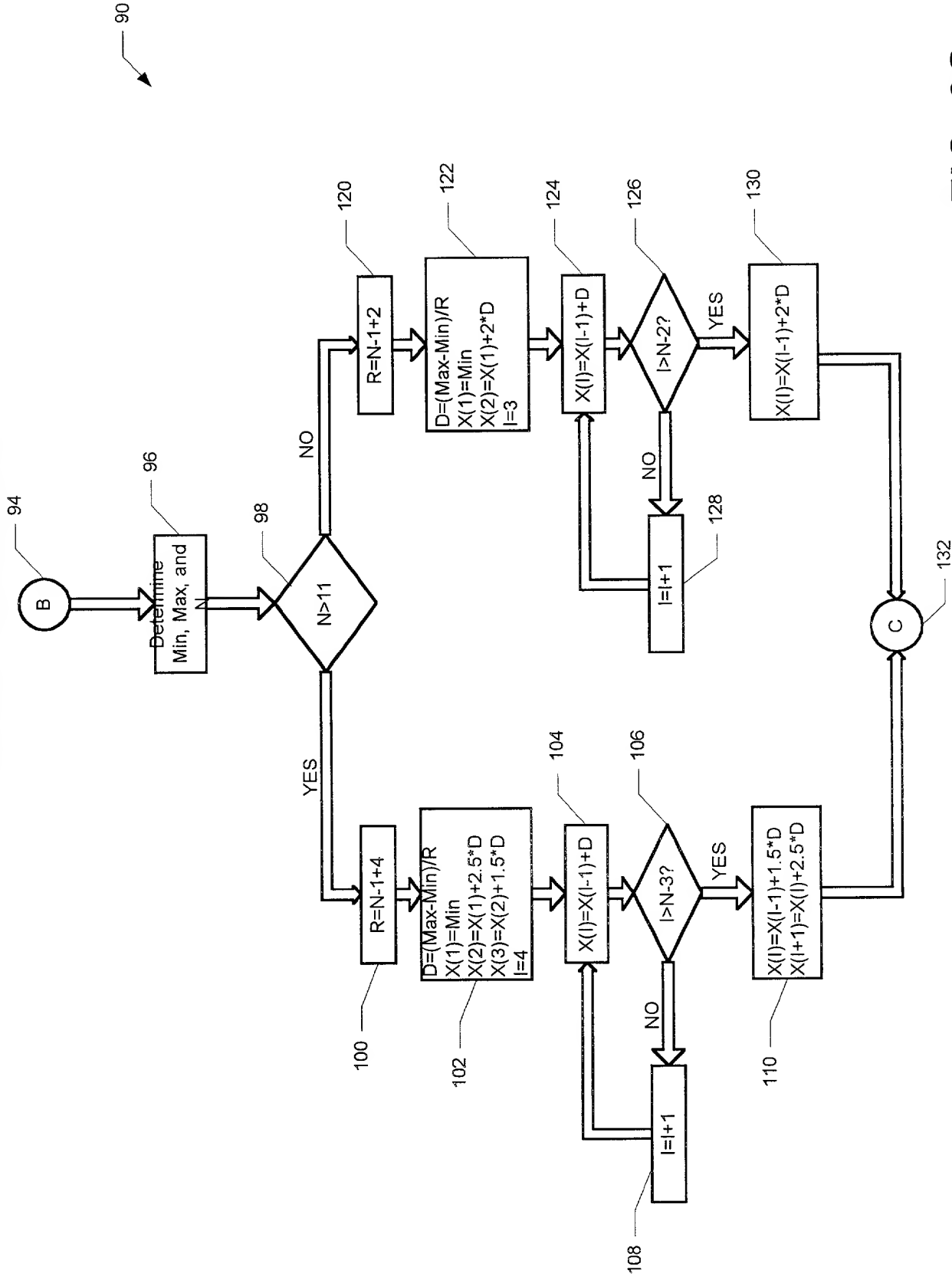


FIG. 2C

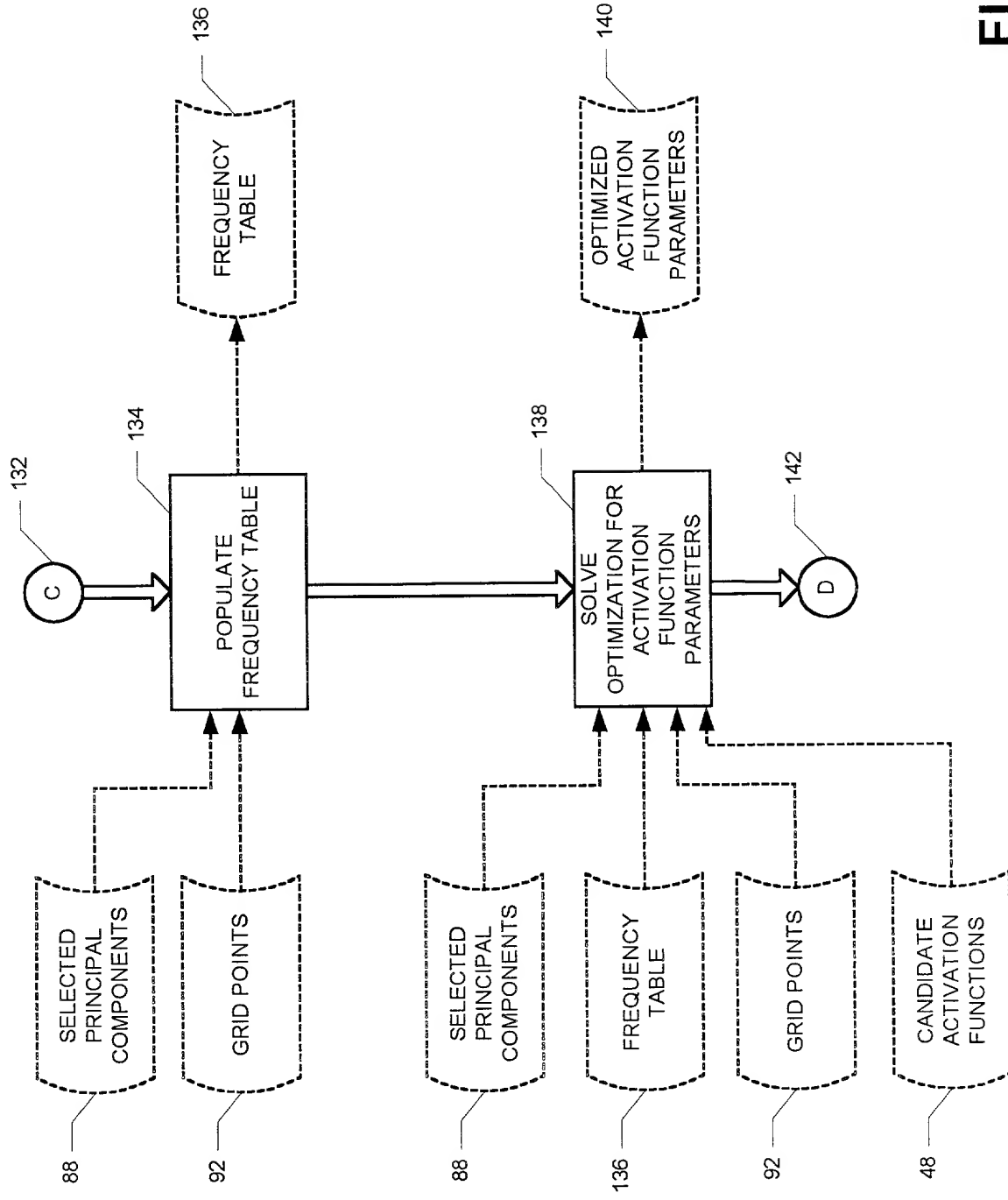


FIG. 2D

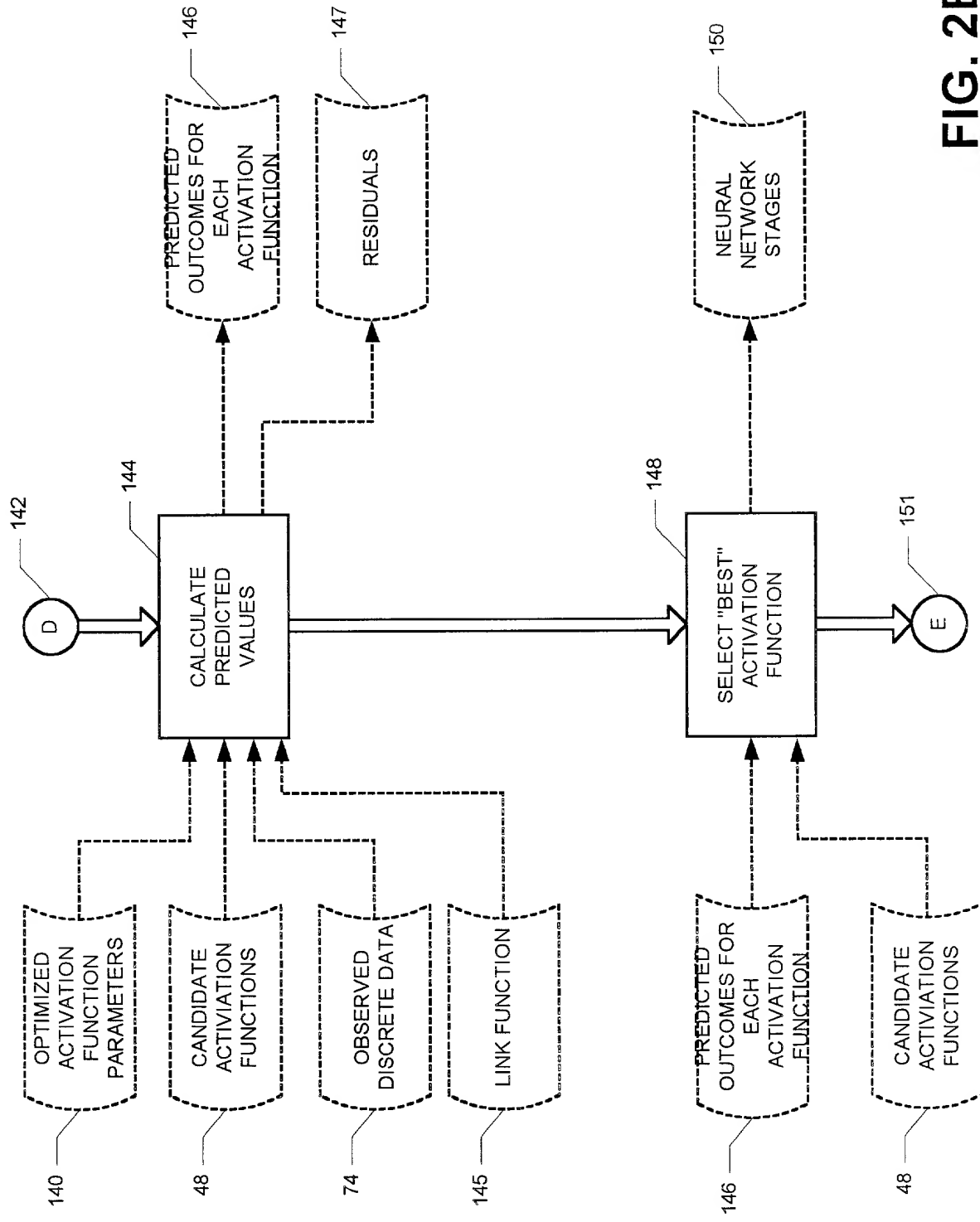


FIG. 2E

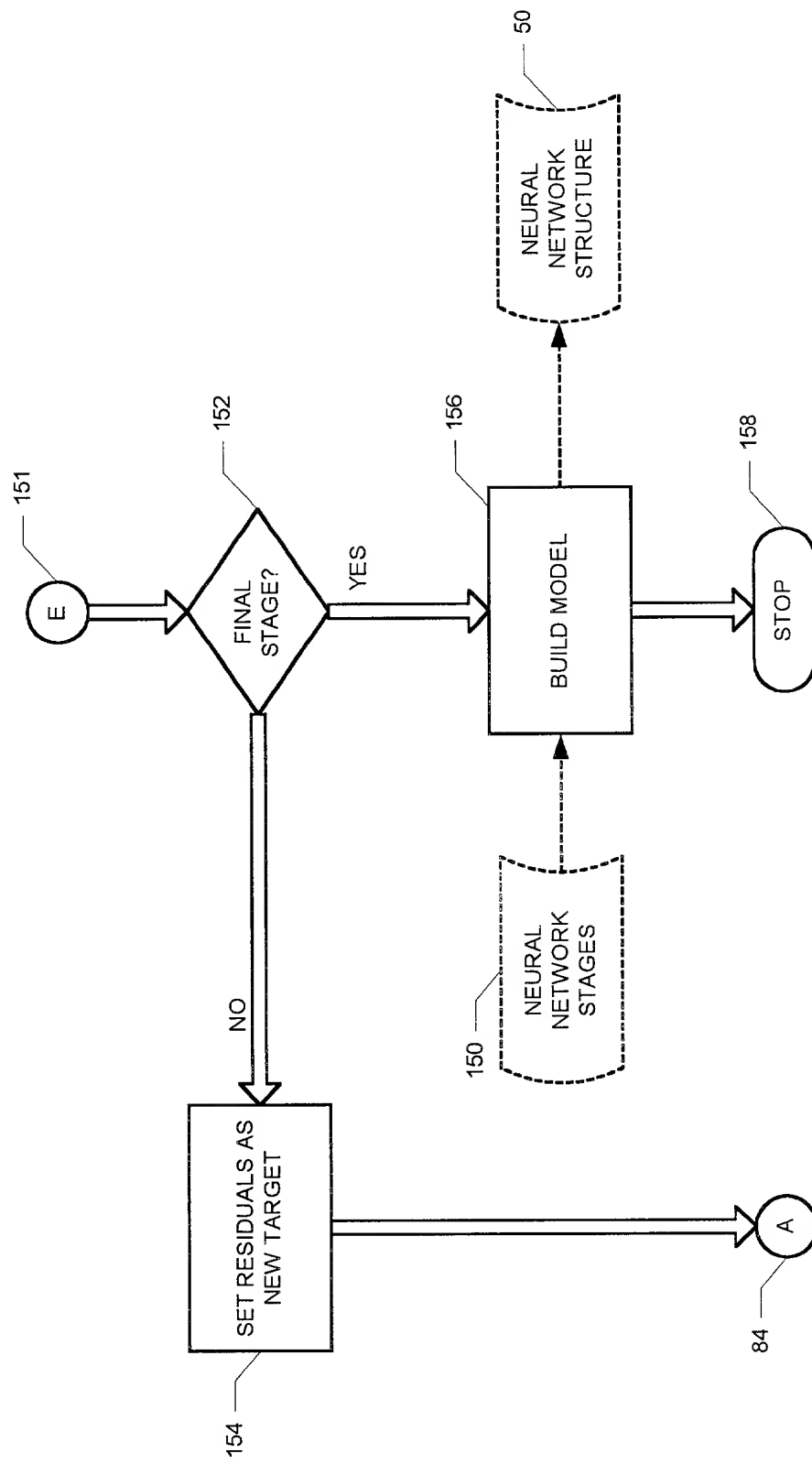


FIG. 2F

FIG. 4A is a block diagram of a neural network 200, in accordance with an embodiment of the present invention. The neural network 200 includes three input layers, each receiving a different input: PC 16, PC 7, and PC 19. Each input layer feeds into a corresponding candidate activation function (Cand. Act. Fn.) block. The outputs of these three blocks are summed (indicated by a '+' sign) and fed into a Theta 1 block. The output of the Theta 1 block is compared with a Target (indicated by a '-' sign) to produce a Residual 1 (First stage residual).

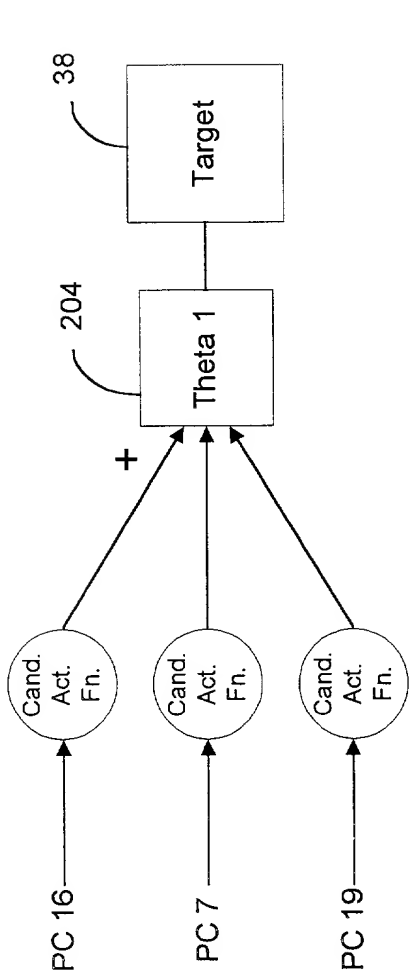


Fig. 4A

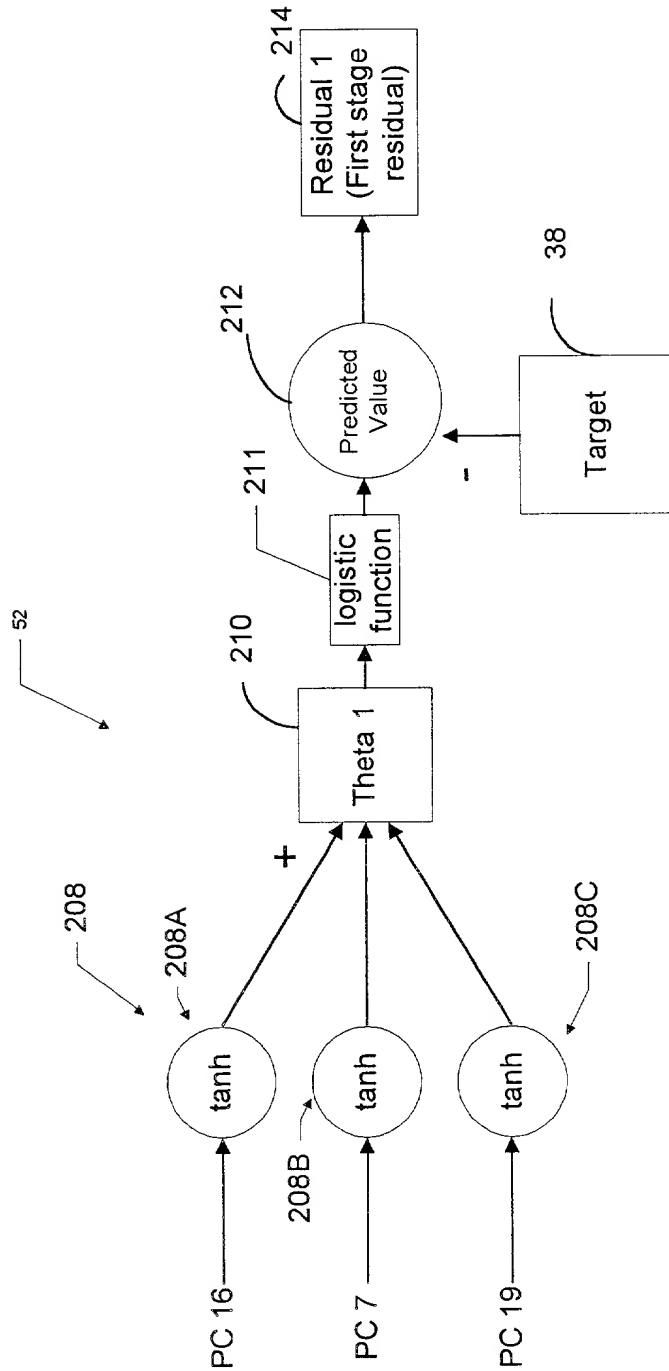


Fig. 4B

Fig.5A

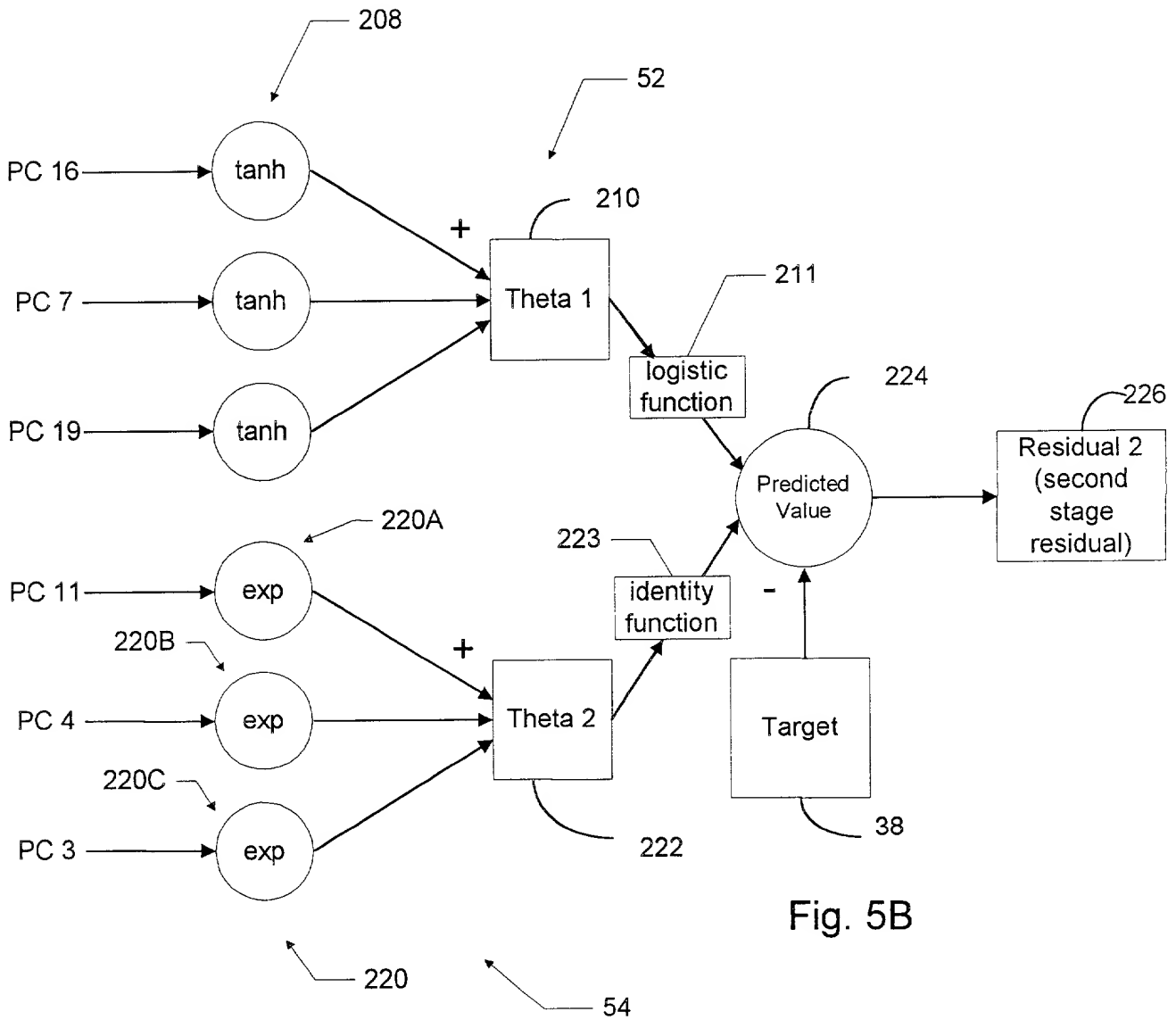
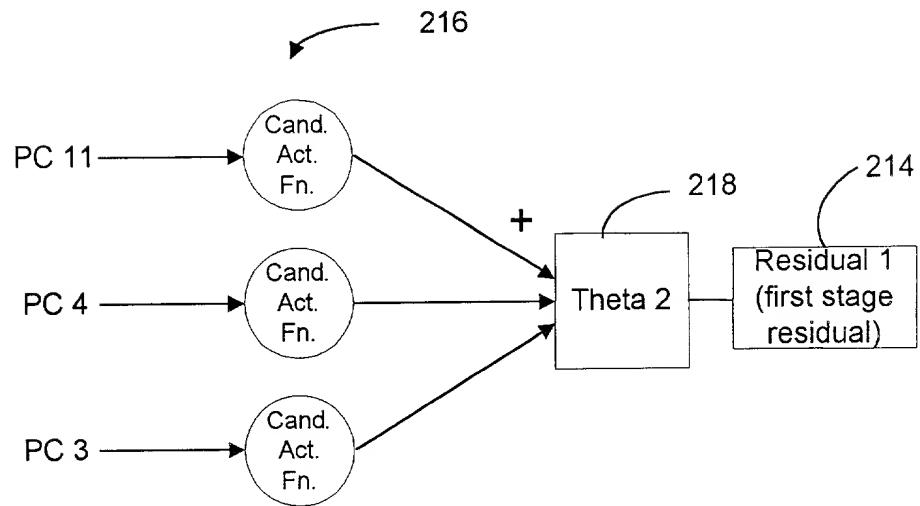
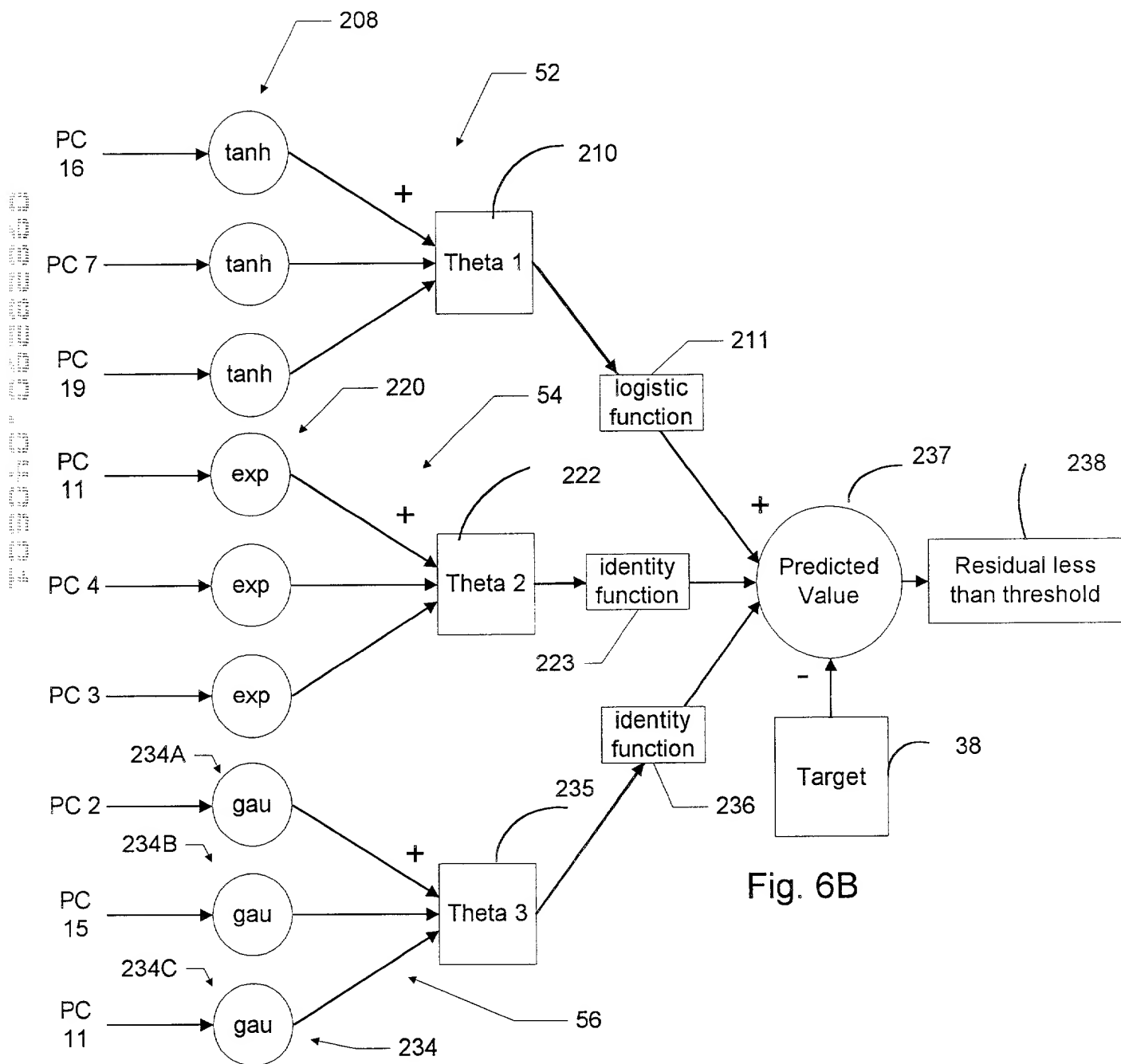
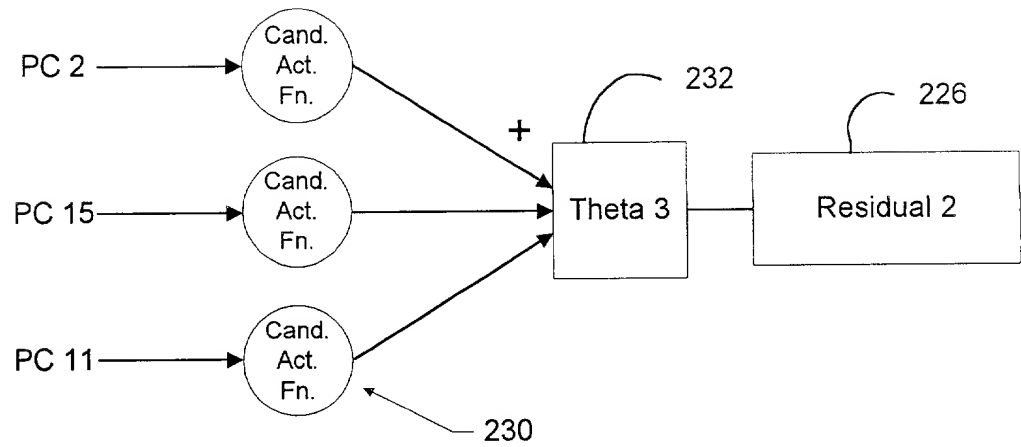


Fig. 5B

Fig. 6A



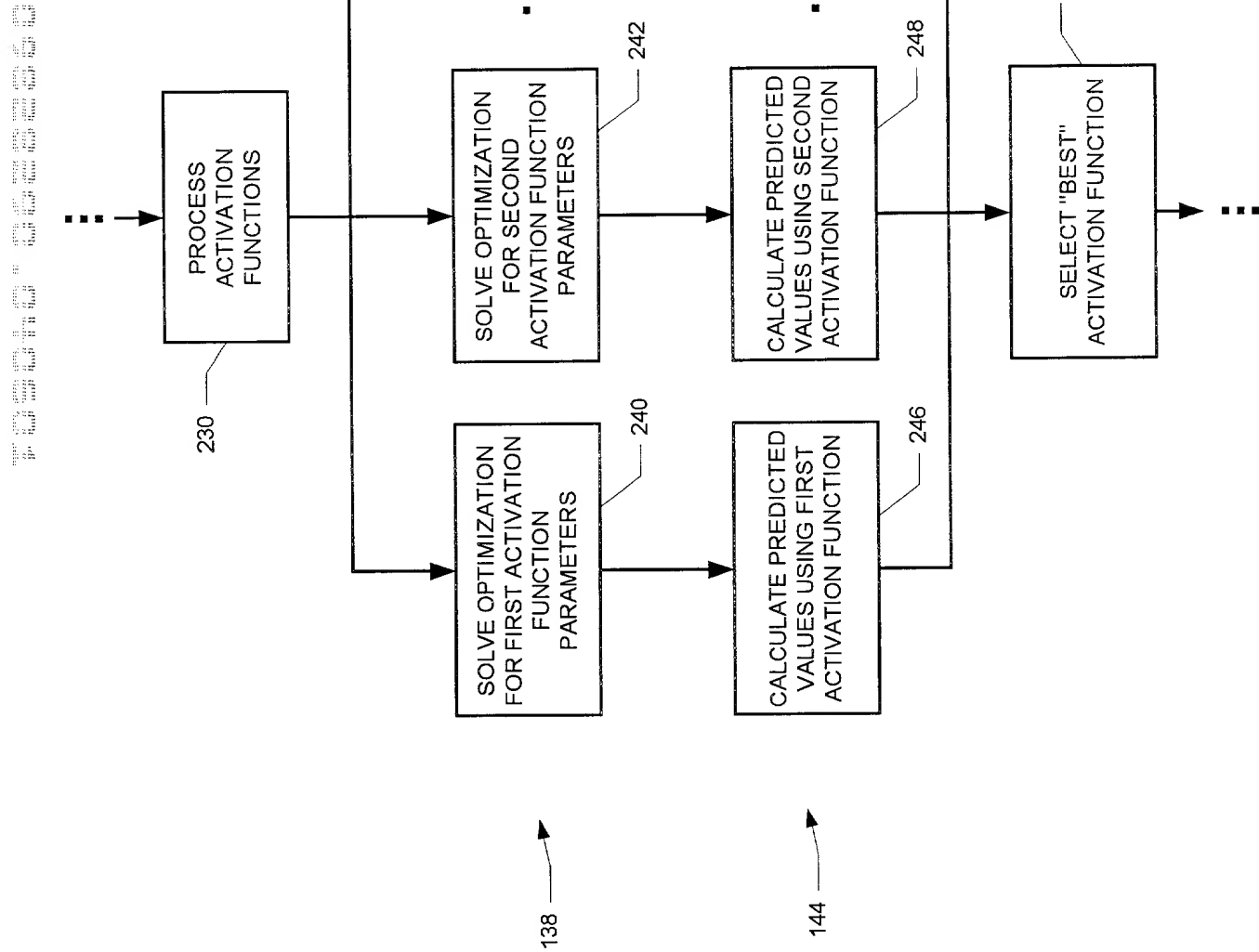


FIG. 7

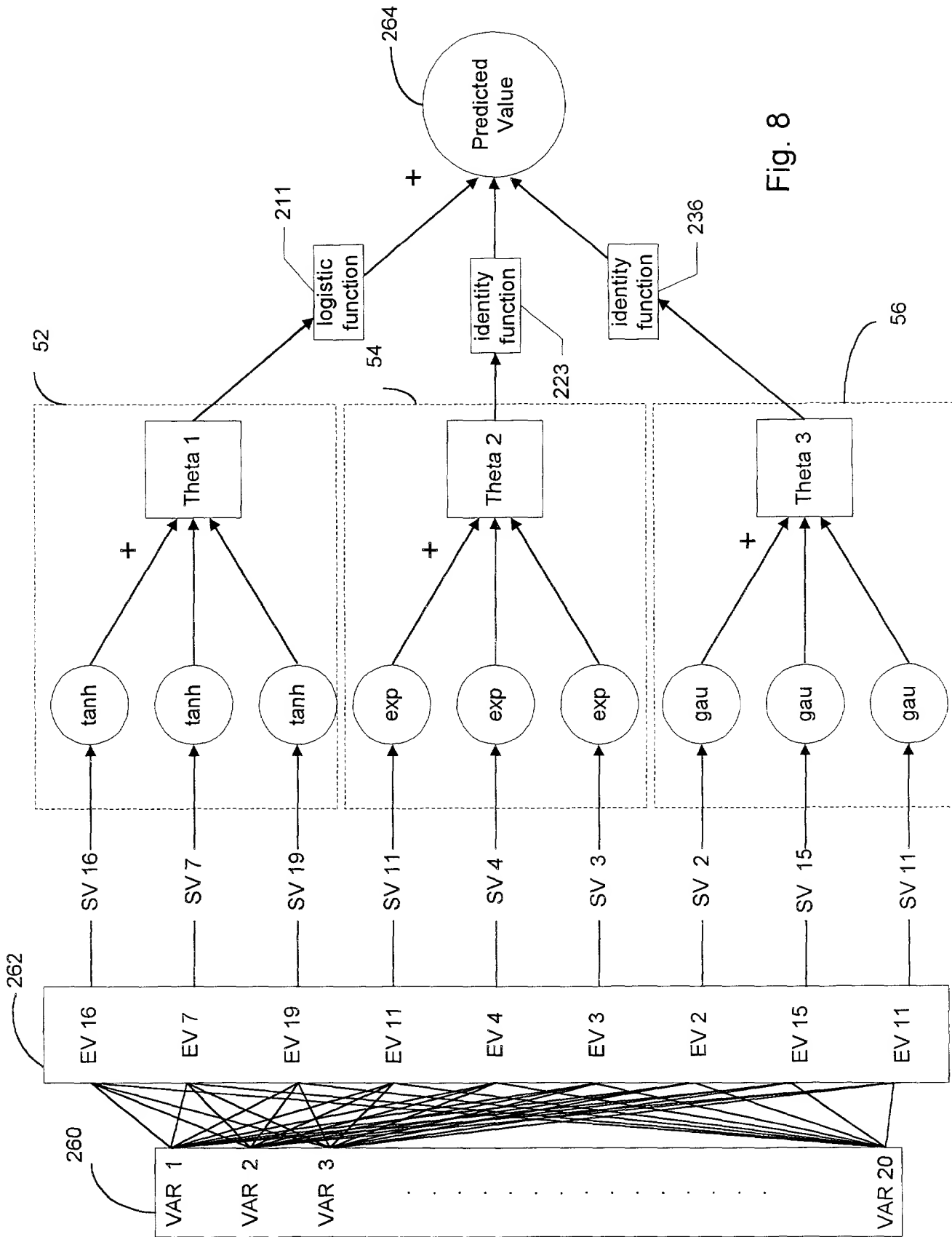


Fig. 8